

Christos (Kitsos) Louis
Curriculum vitae

NAME: Christos (Kitsos) Louis
CITIZENSHIP: Greek
PLACE OF BIRTH: Athens, Greece.
DATE OF BIRTH: November 11, 1948
FAMILY STATUS: Married, two children.
ADDRESS: Dept. of Biology, University of Crete, 711 10 Heraklion, Crete, Greece and
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EDUCATION

1960 - 1966 Dörfeld Gymnasium (German High School) Athens, Greece.
1967 - 1968 Johannes-Gutenberg-Universität Mainz, Mainz, Germany; Biology.
1968 - 1974 Philipps-Universität Marburg, Marburg, Germany; Medicine.
1975 - 1977 Deutsches Krebsforschungszentrum (DKFZ - German Cancer Research
Centre), and Ruprecht-Karls-Universität, Heidelberg, Germany; Doctoral thesis work.

ACADEMIC POSITIONS HELD

1974 - 1976 Research Assistant (Wissenschaftliche Hilfskraft), DKFZ.
1976 Medical Intern (Medizinalassistent), Dept. of Surgery, Medical School, Ruprecht-Karls-
Universität, Heidelberg (four months, on leave of absence from the DKFZ).
1977 Research Associate (Wissenschaftlicher Angestellter), DKFZ.
1978 -1979 Postdoctoral fellow, Biozentrum der Universität, Basel, Switzerland.
1980 -1983 Research Associate and Lecturer, Dept. of Biology, Princeton University, Princeton NJ,
USA.
1983 Research Staff, Dept. of Biology, Princeton University.
1983 - today Research Staff, Institute of Molecular Biology and Biotechnology (IMBB), Foundation for
Research and Technology - Hellas, Heraklion, Crete, Greece.
1984 -1988 Associate Professor, Dept. of Biology, University of Crete, Heraklion, Crete, Greece.
1989 - today Professor, Dept. of Biology, University of Crete.
1989 - 1994 & 2008 - 2010 Chairman, Dept. of Biology, University of Crete.
1994 - 1996 & 2005 - 2006 Director, Division of Biochemistry, Molecular, Cellular and Developmental Biology,
Dept. of Biology, University of Crete.
1997 - 2004 Coordinator, IMBB Genome Research Laboratory.
2003 - 2010 Assoc. Director, Univ. of Crete Graduate Programme on Bioethics.
2008 - 2010 Member of the Academic Senate, University of Crete.
2010 Acting Director, Museum of Natural History, School of Sciences, University of Crete.

ACADEMIC POSITIONS HELD AT NON-HOME INSTITUTIONS

1989 (May-June) Visiting Professor (Professore a contratto), Università degli Studi di Napoli
Federico II, Italy
1992 (May) Visiting Professor (Professore a contratto), Università degli Studi di Pavia, Italy
1995 (May) Visiting Professor (Professore a contratto), Università degli Studi di Pavia, Italy
1996 - 1997 (Aug-Jul) Guest Scientist, Università degli Studi di Roma "La Sapienza", Italy
1996 - 1997 (Dec-Jan) Guest Scientist, Max-Plank-Institut f. Biophysikalische Chemie,
Göttingen, Germany

DEGREES, HONOURS, MEMBERSHIPS

- 1974 Medical Degree (Staatsexamen) "*sehr gut*" (1.4/6), Philipps-Universität Marburg.
1977 Doctoral Degree in Cell Biology "*magna cum laude*", Ruprecht-Karls-Universität, Heidelberg.
- 1978 - 1979 EMBO long-term fellow.
1981 Stanley J. Seeger fellow.
- 1990 - 1994 Jury Member, European Union Contest for Young Scientists.
1991 - today Member, Human Genome Organization (HUGO).
1992 - today Elected Member, European Molecular Biology Organization (EMBO).
1996 - 2004 Member, Committee on Molecular Entomology (BCV), UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR).
- 1998 - 2001 Assoc. Member, Hellenic National Research Advisory Board (Ε.Γ.Σ.Ε.).
2000 - 2002 Coordinator, Panel on Integrative and Cellular Biology, Portuguese Foundation of Science and Technology (FCT).
- 2001 - today Member, Advisory Board, Insecta Ltd., London.
2001 - today Member, Executive Committee of the International *Anopheles* Genome Project.
2003 - 2004 Advisory Panel, Elsevier's Research Updates (Biomednet).
2003 - today Advisor, Third World Academy of Sciences.
2004 - 2007 Chairman, WHO/TDR RCS+ Initiative (Research Capacity Strengthening Plus) on Functional Genomics of Insect Disease vectors.
- 2004 - today Foreign Member, Italian Society for Parasitology.
2004 Fiocruz Bienal, Rio de Janeiro, Dec. 8, Invited Keynote speaker.
2008 - today Member of Scientific and Technical Advisory Council (STAC), WHO/TDR.

TEACHING ACTIVITIES

- 1972 - 1974 Undergraduate Instructor (Akademischer Tutor) in *Biochemistry*, Philipps-Universität Marburg, Medical School.
- 1980 - 1983 *Laboratory Course in Molecular Biology*, Princeton University, Dept. of Biology.
1984 - 1986 University of Crete, School of Medicine. Undergraduate lecture courses on *General Biology and Molecular Genetics*.
- 1988 Instructor, EU-sponsored Course on *recombinant DNA*, Thessaloniki.
1988 - today University of Crete, Dept. of Biology; Undergraduate lecture courses on *Molecular Genetics, Classical Genetics, Medical Entomology*; misc. graduate courses on *Molecular Genetics and Genomics*.
- 1989 Lecture course on *transposable elements*, Università degli Studi di Napoli Federico II.
1991 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Fort Collins, Colorado, USA. *Molecular genetics*.
- 1992 Lecture course on *transposable elements*, Università degli Studi di Pavia.
1993 Instructor, TDR-sponsored Course on Medical Entomology, Madras, India. *Molecular genetics*.
- 1994 Instructor, TDR-sponsored Course on Medical Entomology, Rio de Janeiro, Brasil. *Molecular genetics*.
- 1993 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Kolymbari and Heraklion, Crete. *Genomics, Molecular genetics*.
- 1995 Lecture course on *transposable elements*, Università degli Studi di Pavia.
1996 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Fort Collins, Colorado, USA. *Genomics, Bioinformatics*
- 2001 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Ceske Budejovice, Czech Republic. *Bioinformatics*
- 2002 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Fort Collins, Colorado, USA. *Bioinformatics*
- 2003 Instructor, MacArthur Foundation-sponsored Course on Vector Biology, Cuernavaca, Mexico. *Bioinformatics & Molecular evolution*
- 2003 Coordinator and Instructor, MR4/NIAID-sponsored Course on Vector Bioinformatics, Baltimore
- 2004 Instructor, UNESCO-sponsored Course on Bioinformatics, Heraklion, Crete

- 2005 Instructor, TDR-sponsored Course on Functional genomics of Insect Vectors, Bangkok, Thailand, *Databases & Insect Genomics* (two courses, January and September 2005)
- 2005 Instructor, MacArthur Foundation-sponsored Course on Vector Biology Bangkok, Thailand, *Bioinformatics & Anopheles Genomics*
- 2006 Instructor, MacArthur Foundation-sponsored Course on Vector Biology Liverpool, UK, *Bioinformatics & Anopheles Genomics*
- 2006 Instructor, TDR-sponsored Course on Functional genomics of Insect Vectors, Bangkok, Thailand, *Databases & Insect Genomics*
- 2007 Instructor, Fiocruz-sponsored Course on Vector Biology, Manaus, Brazil, *Bioinformatics & Insect Genomics*

Postgraduate Thesis Advisor of: (year of last degree obtained or expected):

- 1989 Maria Monastirioti, PhD, University of Patras
- 1995 Joerg Heinrich, PhD, Freie Universität Berlin
- 1995 Deppy Papadopoulou, MSc, PhD, University of Crete
- 1995 George Skavdis, MSc, PhD, University of Crete
- 1996 George Dimopoulos, MSc, PhD, University of Crete
- 1999 George Valianatos, MSc, University of Crete
- 2002 Tassos Koutsos, MSc, University of Crete
- 2004 Vasso Mahairaki, PhD, University of Crete
- 2004 Tereza Voyatzi, MSc, University of Crete
- 2005 Michalis Kotsyfakis, MSc, PhD, University of Crete
- 2011 Pantelis Topalis, MSc, PhD, University of Crete
- (2012) Rhianon Morgan, PhD, University of Crete
- (2014) Elvira Mitraka, MSc, PhD University of Crete

SCIENTIFIC REVIEWER

- Editorial Boards, etc.: *Genetica* (1989-1994)
Genes and Function (1996-1997)
Insect Molecular Biology (2000 - today)
Insect Biochemistry and Molecular Biology (2004; Guest editor)
Parassitologia (2005 - today)
Επιθεώρηση Βιοηθικής -Review of Bioethics- (2007 - today)
BMC Genomics (2009 - today)
TropIKA.net (2009 - today)
PLOS Genetics (2010; Guest editor)
Annals of Tropical Medicine and Parasitology (2011 - today)

- Funding Agencies:
(Research Grants) Austrian Research Foundation
CNRS (France), *Anopheles* post-sequencing research grants
European Union, DG XII (various programmes)
EMBO (short & long term fellowships, indiv. instal. grants)
Fondazione Cenci Bolognetti, Rome
French National Inst. Agricultural Research (INRA-ANR)
Hellenic Secret. Gen. Res. Technol. (various programmes)
Human Frontier Science Program
Italian Ministry of Universities and Research (MURST)
Medical Research Council of Canada
Medical Research Council, United Kingdom
National Science Foundation (USA)
Portuguese Foundation for Science & Technology (FCT)
South African Medical Research Council
Third World Academy of Sciences
United Nations Development Organization (UNIDO)
University of Crete
University of Ioannina
Wellcome Trust
World Health Organization/TDR

- Scientific Journals: *BMC Genomics, Cell. Microbiol., EMBO J., Eur. J. Biochem., FEBS Lett., Genetica, Genetics, Genet. Res. Camb., Genes and Function, Genome, Insect Mol. Biol., Infect. Immun., J. Biomed. Semant., J. Mol. Evol., Molec. Biochem. Parasitol., PLoS Genetics, PLOS One, Proteomics, Mol. Gen. Genet., Mol. Ecol., Nature Biotech., Proc. Natl. Acad. Sci. USA, Science, Trends Parasitol., etc.*
- Other: EMBO *ad hoc* panel for the evaluation of the Hungarian Academy of Sciences (1998)
- Faculty Election Boards: U. of Athens, Dept. of Biology;
Agricultural U. of Athens, Dept. of Agricultural Biotechnology;
U. of Thrace; Dept. of Genetics & Mol. Biology;
U. of Patras, Dept. of Biology and School of Medicine;
U. of Patras, School of Medicine;
U. of Thessaly, Dept. of Biochemistry,
Cyprus U. of Technology, **Department of Agricultural Sciences, Biotechnology and Food Science;**
U. of Ioannina, Dept. of Applied Biol. Sciences;
U. of Ioannina, Dept. of Natural Resources;
U. of Crete, Dept. of Psychology and School of Medicine;
U. of Crete, School of Medicine;
Democritus Nuclear Research Centre Athens;
IMBB-FORTH.

RESEARCH ACTIVITIES

- 1973 - 1977 Doctoral thesis work, and postdoctoral research (1977) in the laboratories of *Prof. Constantin E. Sekeris* at the University of Marburg (till 1974) and the DKFZ, on the structure and function of hnRNA-protein-complexes in rat liver nuclei; localisation of homopolymer-synthetases in rat liver nuclei.
- 1977 - 1978 Postdoctoral research in the laboratory of *Prof. Walter J. Gehring* at the Biozentrum: molecular analysis of pole cell determination in *Drosophila melanogaster*; structure of the 5S RNA genes of *D. melanogaster*.
- 1980 - 1983 Postdoctoral research in the laboratory of *Prof. Paul Schedl* at Princeton: chromatin structure of specific genes of *D. melanogaster*; structure and function of the *rudimentary* locus of *D. melanogaster*, molecular analysis of phenotypic suppression in *D. melanogaster*.
- 1983 - Research areas in my laboratory (underlined: current research): molecular analysis of hybrid dysgenesis (specifically the *hobo*-induced genetic instability) and of the *Glutamate dehydrogenase* gene of *D. melanogaster*; physical mapping and sequencing of the *D. melanogaster* and the *Anopheles gambiae* genomes; molecular analysis of mosquito/malaria parasite interactions in the midgut; development and curation of a genome database for *An. gambiae*; development of molecular approaches for the eradication of insect pests (especially the Medfly, *Ceratitis capitata*); population biology and genomics of human malaria vectors; molecular analysis the *Plasmodium* life cycle in the anopheline midgut; development and curation of a genome database for *An. gambiae*; development and curation of an insecticide resistance database for disease vectors; development of ontologies and controlled vocabularies for disease vectors and vector-borne diseases.

RESEARCH GRANTS RECEIVED (stand: August 2011)

Title of Project	Fund. Agency	Role	Contract #	Curr	Funds (Louis only)	Start date	End date
Molecular analysis of the hobo-induced hybrid dysgenesis system	DG XII	PI	SC1-0171-C	Euro	61.200,00	01/06/1989	31/05/1991
Mapping of the Drosophila genome	DG XII	co-PI	ST2P-0477-C	Euro	102.470,00	01/10/1988	30/09/1993
Towards complete physical map of the drosophila melanogaster genome-the second chromosome	DG XII	PI	SC1-CT92-0787	Euro	41.340,00	01/07/1992	31/12/1993
Integrated genome maps of insects (NIGA)	DG XII	PI	ERBCHBG-CT92-0082	Euro	22.534,00	01/03/1993	31/12/1994
Genetics transformation techniques for pest insects(PEST)	DG XII	co-PI	ERBBIOTT-CT92-5004	Euro	70.190,00	01/03/1992	31/01/1995
Identification of a promoter specifically transcribed in the gut cells.	DG XII	PI	TS3-CT92-0044	Euro	62.000,00	01/10/1992	30/09/1996
Towards a complete physical map of the drosophila melanogaster genome	DG XII	PI	CHRX-CT93-0264	Euro	85.632,00	01/01/1994	30/06/1997
Sequence of divisions 1-3 of the drosophila genome.	DG XII	co-PI	BIO4-CT96-0506	Euro	420.000,00	01/12/1996	31/12/2002
Insect parasite interactions:molecular aspects of infection and immunity in diptera	DG XII	co-PI	FMRX-CT96-0017	Euro	259.900,00	01/08/1996	31/07/2000
Development and field applications of molecular probes for the study of afrotrropical malaria vectors	DG XII	PI	IC 18-CT97-0244	Euro	126.300,00	01/12/1997	31/05/2002
Insect innate immunity and the critical stages of Malaria-Mosquito interactions	DG XII	co-PI	HPRN-CT2000-00080	Euro	200.000,00	01/10/2000	30/09/2004
Gene expression upon malaria infection and exposure to pyrethroids in insect cells	DG XII	PI	HPMF-CT2002-01542	Euro	51.600,00	15/11/2002	14/11/2003
Research and training in tropical diseases	WHO/TDR	PI	V30-181-112	USD	47.724,00	01/02/1993	31/10/1995
Anopheles database	WHO/TDR	PI	D96-9430062A	USD	20.923,00	01/11/1995	31/10/1997
Network on the biology of parasite vectors.	MacArthur Foundation	co-PI	MACARTHUR	USD	230.000,00	01/01/1995	31/12/1999
Research and training in tropical diseases	WHO/TDR	PI	V30/181/174 ID 960481	USD	46.000,00	01/12/1996	30/11/2000
Anopheles gambiae genome project (Subcontract EMBL)	NIH-EMBL	PI	SUBCONTRACT	USD	124.486,00	01/05/2001	30/04/2002
AnoDB, The Anopheles Database	WHO/TDR	PI	V30/181/231	USD	101.000,00	01/12/2000	30/11/2004
Analysis of the ookinete invasion of Anopheles and subsequent transformation to oocyst using mRNA microarrays	WHO/TDR	PI	V30/181/226	USD	68.600,00	01/12/2000	30/11/2004
Ανάπτυξη μεθόδων γενετικής μηχανικής για βιολογικό έλεγχο βλαβερών εντόμων και εφαρμογές στην βελτίωση της παραγωγής εσπεριδοειδών	ΓΓΕΤ	co-PI	ΕΡΓΟ 248	Δρχ	30.484.686,00	01/01/1994	30/04/1999
Επέκταση και αναβάθμιση υποδομής ΙΤΕ"συμπλήρωση εξοπλισμού προσδιορισμού γονιδιοματικών αλληλουχιών"	ΓΓΕΤ	co-PI	ΕΠΕΤ II ΥΠ.3	Δρχ	87.800.000,00	03/03/1998	02/03/1999

Λειτουργική ανάλυση του γονιδιώματος της μύγας των φρούτων (<i>Drosophila melanogaster</i>) με ηλεκτρονικούς υπολογιστές	ΓΓΕΤ	PI	ΑΠ.7135	Δρχ	3.775.000,00	11/05/2000	10/11/2001
Μετα-γονιδιωματική και πρωτεομική λειτουργική μελέτη του κουνουπιού <i>Anopheles gambiae</i> και του παρασίτου της ελονοσίας <i>Plasmodium falciparum</i> .	ΓΓΕΤ	co-PI	ΑΠ5243	Euro	34.000,00	01/05/2004	31/10/2006
Biology and Pathology of the Malaria Parasite.	DG XII	co-PI	LSHP-CT2004-503578	Euro	338.792,00	01/04/2004	30/09/2009
Bioinformatics Resource Centers for Biodefense and Emerging/Re-emerging Infectious Disease.	NIAID (NIH)	co-PI	HHSN266200400039C	USD	519.327,37	30/06/2004	30/09/2009
Επιπτώσεις εντομοκτόνων στη γονιδιακή αλληλεπίδραση εντόμων φορέων - παθογόνων	ΓΓΕΤ	PI	ENTEΠ 01EP11	Euro	73.250,00	01/08/2003	31/07/2005
Malaria Transmission blocking by vaccines, drugs and immune mosquitoes : Efficacy assessment and targets.	DG XII	co-PI	HEALTH-F3-2008-223736	Euro	139.090,00	01/12/2008	30/11/2012
Research capacity for the implementation of genetic control of mosquitoes.	DG XII	co-PI	Grant Agreement 228421	Euro	152.656,00	01/09/2009	31/08/2013
Bioinformatics Resource Centers for Infectious Disease.	NIAID (NIH)	co-PI	NIH-NIAID-DMID-AI2008038	USD	888.172,00	01/10/2009	30/09/2014
Towards the establishment of a permanent European virtual institute dedicated to Malaria research (EVIMalaR)	DG XII	co-PI	Grant Agreement 242095	Euro	96.000,00	01/10/2009	30/09/2014
Εξερευνώντας τον ρόλο των μικρών RNA στις ασθένειες : μια υπολογιστική πειραματική προσέγγιση.	ΓΓΕΤ	co-PI	09ΣΥΝ-13-1055 ΑΠ262/18-2-11	Euro	69.392,76	18/02/2011	17/02/2014

PUBLICATIONS (August 2011)

Bibliographic reference number, when available, follows each publication (in brackets); Abstracts are not listed here, even if published in journals included in literature databases (e.g. ISI, Scopus, Pubmed), and neither are these considered in the metrics.

SUMMARY METRICS (August 2011)

<i>Number of full publications listed</i>	142	(Publications #999 and #000 are excluded)
<i>Publications in Pubmed</i>	93	
<i>Publications in ISI</i>	94	
<i>Publications in Scopus</i>	93	
<i>Publications used for metrics</i>	98	

<i>h-index</i>	32 (31)	(based on 94 publications listed by ISI)
<i>g-index</i>	59	

<i>Cumulative Impact Factor (IF: 2011)</i>	595.07	only for periodicals listed by ISI
<i>Impact factor/publication (IF: 2011)</i>	6.1986	only for periodicals listed by ISI
<i>Number of citations</i>	3826 (3671)	(based on 94 publications listed by ISI)
<i>Citations/publication</i>	39.85 (39.47)	(based on 94 publications listed by ISI)

SCIENTIFIC FIELD (overlapping; lists A and C only and total A-D in parenthesis)

<i>Bioinformatics</i>	10	(19)
<i>Genetics</i>	44	(45)
<i>Genomics (w/o Bioinformatics)</i>	23	(27)
<i>Molecular Biology</i>	15	(18)
<i>Parasitology & Vector Biology</i>	70	(82)
<i>Other</i>	5	(10)

A. REFEREED PUBLICATIONS AND INVITED SCIENTIFIC REVIEWS

1. **Louis, C.** and Sekeris, C.E. (1976). Isolation of informoferes from rat liver nuclei: Effects of α -Amanitin and Actinomycin D. *Exptl. Cell Res.* **102**, 317-324. (PMID: 976351)
2. Deimel, B., **Louis, C.** and Sekeris, C.E. (1977). The presence of small molecular weight RNAs in nuclear ribonucleoprotein particles carrying hnRNA. *FEBS Lett.* **73**, 80-84. (PMID: 838050)
3. Louis, C., Zimmermann, H.P. and Sekeris, C.E. (1978). Poly(A)-Synthetases in rat liver nuclei and their localisation. *Cytobiol. (Eur. J. Cell Biol.)* **16**, 171-184.
4. Stunnenberg, H., **Louis, C.** and Sekeris, C.E. (1978). Depletion in nuclei of proteins associated with hnRNA as a result of inhibition of RNA synthesis. *Exptl. Cell Res.* **112**, 335-344. (PMID: 564781)
5. Alonso, A., **Louis, C.**, C.N. Flytzanis and Sekeris, C.E. (1978). Distribution of coding sequences within the nuclear hnRNA-protein complexes. *FEBS Lett.* **93**, 351-356. (PMID: 710585)
6. C.N. Flytzanis, Alonso, A., **Louis, C.**, Krieg, L. and Sekeris, C.E. (1978). Association of small nuclear RNA with hnRNA isolated from nuclear complexes carrying hnRNA. *FEBS Lett.* **96**, 201-206. (PMID: 729786)
7. **Louis, C.**, Schedl, P., Samal, B. and Worcel, A. (1980). Chromatin structure of the 5S genes in *Drosophila melanogaster*. *Cell* **22**, 387-392. (PMID: 6778618)
8. Sekeris, C.E., Pruesse, A., Alonso, A. and **Louis, C.** (1980). hnRNA-snRNA-protein complexes: possible structure and function. *Period. Biolog.* **82**, 309-317.
9. Samal, B., Worcel, A., **Louis, C.** and Schedl, P. (1981). Chromatin structure of the histone genes in *Drosophila melanogaster*. *Cell* **23**, 401-409. (PMID: 6258802)
10. Pruesse, A., **Louis, C.**, Alonso, A. and C.E. Sekeris (1982). Isolation and characterisation of hnRNA-snRNA-protein complexes from *Morris Hepatoma* cells. *Eur. J. Biochem.* **128**, 169-187. (PMID: 6184225)
11. DeLotto, R., **Louis, C.**, Wormington, M. and Schedl, P. (1982). Intimate association of 5S and tRNA genes in *Drosophila melanogaster*. *Mol. Gen. Genet.* **188**, 299-304. (PMID: 6818429)
12. Worcel, A., Gargiulo, G., Jese, B., Udvardy, A., **Louis, C.** and Schedl, P. (1983). Chromatin fine structure of the histone complex of *Drosophila melanogaster*. *Nucl. Acids Res.* **11**, 421-439. (PMID: 6402757)
13. Segraves, W.A., **Louis, C.**, Schedl, P. and Jarry, B.P. (1983). Isolation of the *rudimentary* locus of *Drosophila melanogaster*. *Mol. Gen. Genet.* **189**, 34-40.
14. Segraves, W.A., **Louis, C.**, Tsubota, S. Schedl, P., Rawls, J.M. and Jarry, B.P. (1984). The *rudimentary* locus of *Drosophila melanogaster*. *J. Mol. Biol.* **175**, 1-17. (PMID: 6144799)
15. Udvardy, A., **Louis, C.**, Han, S. and Schedl, P. (1984). The rRNA genes of *Drosophila melanogaster* have an unusual chromatin organisation. *J. Mol. Biol.* **175**, 113-130. (PMID: 6233426)
16. Rawls, J.M., Freund, J.-N., Jarry, B.P., **Louis, C.**, Segraves, W.A., and Schedl, P. (1986). Organization of transcription units around the *Drosophila melanogaster rudimentary* locus and temporal pattern of expression. *Mol. Gen. Genet.* **202**, 493-499. (PMID: 3012273)
17. Yannopoulos, G., Stamatis, N., Monastiriotti, M., Hatzopoulos, P. and **Louis, C.** (1987). hobo is responsible for the induction of hybrid dysgenesis by strains of *Drosophila melanogaster* bearing the male recombination factor 23.5 MRF. *Cell* **49**, 487-495. (PMID: 3032457)
18. Hatzopoulos, P., Monastiriotti, M., Yannopoulos, G. and **Louis, C.** (1987). The instability of the TE-like mutation *Dp(2;2)GYL* of *Drosophila melanogaster* is intimately associated with the *hobo* element. *EMBO J.* **6**, 3091-3096. (PMID: 1465043)
19. **Louis, C.** and Yannopoulos, G. (1988). The transposable elements involved in hybrid dysgenesis in *Drosophila melanogaster*. *Oxford Surveys in Eukaryotic Genes* **5**, 205-250. (PMID: 2855206)
20. Monastiriotti, M., Hatzopoulos, P., Stamatis, N., Yannopoulos, G. and **Louis, C.** (1988). Cohabitation of *KP* and full-length *P* elements in the genome of strains of *D. melanogaster* inducing *GD*-sterility. *Mol. Gen. Genet.* **215**, 94-99. (PMID: 2853833)

21. Stamatis, N., Monastirioti, M., Yannopoulos, G. and **Louis, C.** (1989). The P-M and 23.5 MRF (hobo) systems of hybrid dysgenesis in *Drosophila melanogaster* are independent of each other. *Genetics* **123**, 379-387. (PMID: 2555254)
22. Saunders, R.D.C, Glover, D.M., Ashburner, M., Sidén-Kiamos, I., Monastirioti, M., **Louis, C.**, Savakis, C. and Kafatos, F.C. (1989). PCR-amplification of DNA microdissected from a single polytene chromosome band: a comparison with conventional microcloning. *Nucl. Acids Res.* **17**, 9027-9037. (PMID: 2587252)
23. Papadopoulou, D. and **Louis, C.** (1990). The gene coding for *Glutamate dehydrogenase* in *Drosophila melanogaster*. *Biochem. Genet.* **28**, 337-340. (PMID: 1702620)
24. Sidén-Kiamos, I., Saunders, R.D.C, Spanos, L., Majerus, T., Trennear, J., Savakis, C., **Louis, C.**, Glover, D.M., Ashburner, M. and Kafatos, F.C. (1990). Towards a physical map of the *Drosophila melanogaster* genome: mapping of cosmid clones within defined genomic divisions. *Nucl. Acids Res.* **18**, 6262-6270. (PMID: 2123026)
25. Kafatos, F.C., **Louis, C.**, Savakis, C., Glover, D.M., Ashburner, M., Link, A.J., Sidén-Kiamos, I. and Saunders, R.D.C, (1991). Integrated maps of the *Drosophila* genome. *Trends Genet.* **7**, 155-161. (PMID: 1906209)
26. Zerges, W., **Louis, C.** Schedl, P. (1992). Two non-gypsy rudimentary mutations and their suppression by mutations of *suppressor of Hairy-wing* in *Drosophila*. *Mol. Gen. Genet.* **235**, 441-449. (PMID: 1281517)
27. Heinrich, J.-C., Tabler, M. and **Louis, C.** (1993). Attenuation of *white* gene expression in transgenic *Drosophila melanogaster*: possible role of a catalytic antisense RNA. *Devel. Genet.* **14**, 258-265. (PMID: 7693385)
28. Sidén-Kiamos, I., Favia, G., G. Saccone, D. Artiaco, M. Furia, L.C. Polito and **Louis, C.** (1993). *opa*-like repeats in the genome of the Medfly *Ceratitidis capitata*. *Genetica*, **92**, 43-53. (PMID: 8163155)
29. R.D. Saunders, Ashburner, M., A. Coulson, Glover, D.M., Kafatos, F.C., **Louis, C.**, J. Modolell, G.A. Rimmington, Savakis, C. and Sidén-Kiamos, I. (1993). Polytene chromosome microdissection and molecular genome mapping in *Drosophila* and other dipterans. *Parassitologia* (Suppl.), **35**, 99-102. (PMID: 8233623)
30. Bolshakov, V. N., Galkin, A. P., Kaidanov, L. Z., Gvozdev, V. A. and **Louis, C.** (1994). Closely related *Drosophila melanogaster* strains with altered fitness also depict changes in their *hobo* element properties. *Genet. Sel. Evol.* **26**, 205-216. (BIOSIS: 97448632)
31. Malacrida, A., Torti, C., Yannopoulos, G., Gasperi, G., **Louis, C.** and Milani, R. (1994). Hybrid dysgenesis-like phenomena in the Medfly, *Ceratitidis capitata*. *J. Hered.* **85**, 92-99.
32. Favia, G., Dimopoulos, G. and **Louis, C.** (1994). Analysis of the *Anopheles gambiae* genome using RAPD markers. *Insect Mol. Biol.* **3**, 149-159. (PMID: 7894747)
33. Favia, G., Dimopoulos, G., della Torre, A., Touré, Y. T., Coluzzi, M. and **Louis, C.** (1994). Polymorphisms detected by random PCR distinguish between different chromosomal forms of *Anopheles gambiae*. *Proc. Natl. Acad. Sci. USA*, **91**, 10315-10319. (PMID: 7937947)
34. Madueno, E., Papagiannakis, G., Rimmington, G., Saunders, R.D.C, Savakis, C., Sidén-Kiamos, I., Skavdis, M., Spanos, L., Trennear, J., Adams, P., Ashburner, M., Bolshakov, V.N., Glover, D.M., Kafatos, F.C., **Louis, C.**, Majerus, T. and Modolell, J. (1995). A complete physical map of the X chromosome of *Drosophila melanogaster*: cosmid contigs and sequenced tagged sites. *Genetics*, **139**, 1631-1647. (PMID: 7789765)
35. Heinrich, J.-C., Tabler, M. and **Louis, C.** (1995). Influence of chromosomal position and copy number of a *white*-directed ribozyme gene on the suppression of eye pigmentation in *Drosophila melanogaster*. *Antisense Res. Devel.* **5**, 155-160 (PMID: 7580120)
36. Zwiebel, L.J., Saccone, G., Zacharopoulou, A., Besansky, N., Favia, G., Collins, F.H., **Louis, C.** and Kafatos, F.C. (1995). The *white* gene of *Ceratitidis capitata*: a phenotypic marker for germline transformation. *Science*. **270**, 2005-2008. (PMID: 96123276)
37. Sidén-Kiamos, I., Skavdis, G., Rubio, J., Papagiannakis, G. and **Louis, C.** (1996). The isolation and characterisation of three serine protease genes in the mosquito *Anopheles gambiae*. *Insect Mol. Biol.* **5**, 61-71. (PMID: 8630536)

38. Skavdis, G., Sidén-Kiamos, I., Muller, H.J., Crisanti, A. and **Louis, C.** (1996). Conserved function of a midgut-specific promoter of *Anopheles gambiae* in the fruitfly. *EMBO J.* **15**, 344-350. (PMID: 8617209)
39. Dimopoulos, G., Zheng, L.-B., Kumar, V., della Torre, A., Kafatos, F.C. and **Louis, C.** (1996). Integrated genetic map of *Anopheles gambiae*: use of RAPD polymorphisms as genetic, cytogenetic and STS landmarks. *Genetics.* **143**, 953-960. (PMID: 8725241)
40. Dimopoulos, G., Richman, A., della Torre, A., Kafatos, F.C. and **Louis, C.** (1996). Identification and characterization of differentially expressed cDNAs of the vector mosquito, *Anopheles gambiae*. *Proc. Natl. Acad. Sci. USA.* **93**, 13066-13071. (PMID: 8917545)
41. **Louis, C.**, Madueno, E., Modolell, J., Omar, M.M., Papagiannakis, G., Saunders, R.D.C., Savakis, C., Sidén-Kiamos, I., Spanos, L., Topalis, P., Zhang, Y., Ashburner, M., Benos, P., Bolshakov, V.N., Deak, P., Glover, D.M., Herrmann, S. and Kafatos, F.C. (1997). 105 new potential *Drosophila melanogaster* genes revealed through STS analysis. *Gene*, **195**, 187-193. (PMID: 9305763)
42. Deak, P., Omar, M.M., Saunders, R.D.C., Pal, M., Komonyi, O., Szidonya, J., Maroy, P., Zhang, Y., Ashburner, M., Benos, P., Savakis, C., Sidén-Kiamos, I., **Louis, C.**, Bolshakov, V.N., Kafatos, F.C., Maduno, E., Modolell, J. and Glover, D.M. (1997). P element insertion alleles of essential genes on the third chromosome of *Drosophila melanogaster*: Correlation of physical and cytogenetic maps in chromosomal region 86E-87F. *Genetics*, **147**, 1697-1722. (PMID: 9409831)
43. Favia, G. and **Louis, C.** (1999). Molecular identification of chromosomal forms of *Anopheles gambiae* sensu stricto. *Parassitologia*, **41**, 115-118. (PMID: 10697842)
44. Arcà, B., Lombardo, F., de Lara Capurro, M., della Torre, A., Spanos, L., Dimopoulos, G., **Louis, C.**, A. A. James and M. Coluzzi (1999). Salivary gland-specific gene expression in the malaria vector *Anopheles gambiae*. *Parassitologia*, **41**, 483-487. (PMID: 10697906)
45. **Louis, C.** (1999). Malaria entomology: can genomics help?. *Parassitologia*, **41**, 489-492. (PMID: 10697907)
46. Benos, P. V., Gatt, M. K., Ashburner, M., Murphy, L., Harris, D., Barrell, B., Ferraz, C., Vidal, S., Brun, C., Demailles, J., Cadieu, E., Dreano, S., Gloux, S., Lelaure, V., Mottier, S., Galibert, F., Borkova, D., Minana, B., Kafatos, F.C., **Louis, C.**, Sidén-Kiamos, I., Bolshakov, S., Papagiannakis, G., Spanos, L., Cox, S., Madueno, E., de Pablos, B., Modolell, J., Peter, A., Schoettler, P., Werner, M., Mourkioti, F., Beinert, N., Dowe, G., Schaefer, U., Jaeckle, H., Bucheton, A., Callister, D.M., Campbell, L.A., Darlamitsou, A., Henderson, N. S., McMillian, P.J., Salles, C., Tait, E.A., Valenti, P., Saunders, R. D. C. and Glover, D. M. (2000). From Sequence to Chromosome: the tip of the X chromosome of *D. melanogaster*. *Science*. **287**, 2220-2222. (PMID: 10731137)
47. Spanos, L., Koutroubas, G., Kotsyfakis, M. and **Louis, C.** (2000). The complete sequence of the mitochondrial genome of the Medfly, *Ceratitis capitata*. *Insect Mol. Biol.* **9**, 139-144. (PMID: 10762421)
48. Papadopoulou, D. and **Louis, C.** (2000). The *Glutamate dehydrogenase* gene in *Drosophila melanogaster*: structural analysis and expression. *J. Neurogenet.* **14**, 125-143. (PMID: 10992165)
49. Lombardo, F., Di Cristina, M., Spanos, L., **Louis, C.**, Coluzzi, M. and Arcà, B. (2000). The *Anopheles gambiae* salivary apyrase: promoter sequences of the mosquito gene confer salivary gland expression in *Drosophila melanogaster*. *J. Biol. Chem.* **275**, 23861-23868. (PMID: 10801886)
50. Sidén-Kiamos, I., Vlachou, D., Margos, G., Beetsmaa, A., Waters, A.P., Sinden, R. E. and **Louis, C.** (2000). Distinct roles for Pbs21 and Pbs25 in the *in vitro* ookinete to oocyst transformation of *Plasmodium berghei*. *J. Cell Sci.* **113**, 3419-3426. (PMID: 10984433)
51. Margos, G., Sidén-Kiamos, I., Fowler, R.E., Gillman, T.R., Spaccapelo, R., Lycett, G., Vlachou, D., Papagiannakis, G., Eling, W.M., Mitchell, G.H., **Louis, C.** (2000) Myosin-A expressions in sporogonic stages of *Plasmodium*. *Molec. Biochem. Parasit.* **111**, 465-469. (PMID: 11163454)
52. Valianatos, G., Skavdis, G., Sidén-Kiamos, I. and **Louis, C.** (2000). The trypsin genes' promoters of *Anopheles gambiae* retain their inducibility in transgenic *Drosophila melanogaster*. *Dros. Inf. Serv.* **83**, 128-134.
53. Favia, G., Lanfrancotti, A., Spanos, L., Caruso M., Sidén-Kiamos, I., Coluzzi, M. and **Louis, C.** (2001). Molecular characterization of ribosomal DNA (rDNA) polymorphisms discriminating among chromosomal forms of *Anopheles gambiae* s.s.. *Insect Mol. Biol.* **10**, 19-23. (PMID: 11240633)

54. Vlachou*, D., Lycett*, G., Sidén-Kiamos, I., Blass, C., Sinden, R.E. and **Louis, C.** (2001). *Anopheles gambiae* laminin interacts with the P25 surface protein of *Plasmodium berghei* ookinetes. *Molec. Biochem. Parasit.* **112**, 229-237. (PMID: 11223130)
55. Benos, P.V., Gatt, M.K., Murphy, L., Harris, D., Barrell, B., Ferraz, C., Vidal, S., Brun, C., Demaille, J., Cadieu, E., Dreano, S., Gloux, S., Lelaure, V., Mottier, S., Galibert, F., Borkova, D., Minana, B., Kafatos, F.C., Sidén-Kiamos, I., Bolshakov, S., Papagiannakis, G., Spanos, L., **Louis, C.**, Madueno, E., de Pablos, B., Modolell, J., Peter, A., Schöttler, P., Werner, M., Mourkioti, F., Beinert, N., Dowe, G., Schäfer, U., Jäckle, H., Bucheton, A., Callister, D., Campbell, L., Henderson, N.S., McMillan, P.J., Salles, C., Tait, E., Valenti, P., Pachter, L., Saunders, R.D.C., Glover, D.M. and Ashburner, M. (2001) From First Base: The sequence of the tip of the X chromosome of *D. melanogaster*. *Genome Res.*, **11**, 710-730. (PMID: 11337470)
56. Mahairaki, V., Lycett, G., Blass, C., and Louis, C. (2001). Beta-integrin of *Anopheles gambiae*: mRNA cloning and analysis of structure and expression. *Insect Mol. Biol.* **10**: 217-223. (PMID: 11437913)
57. Lycett, G., Blass, C., and **Louis, C.** (2001). Developmental variation in epidermal growth factor receptor size and localisation in the malaria mosquito, *Anopheles gambiae*. *Insect Mol. Biol.*, **10**, 619-628. (PMID: 11903632)
58. Bolshakov, V., Topalis, P., Blass, C., della Torre, A., Kafatos, F.C. and **Louis, C.** (2002). A comparison of the genomes of the fruitfly *Drosophila melanogaster* and the malaria mosquito *Anopheles gambiae* based on long-range genomic sequences and EST analysis. *Genome Res.* **12**, 57-66. (PMID: 11337470)
59. Arcà, B., Lombardo, F., Lanfrancotti, A., Spanos, L., Veneri, M., **Louis, C.** and Coluzzi, M. (2002) A cluster of four *D7-related* genes are expressed in the salivary glands of the African malaria vector *Anopheles gambiae*. *Insect Mol. Biol.*, **11**, 47-56. (PMID: 11841502)
60. Peter, A., Schottler, P., Werner, M., Beinert, N., Dowe, G., Burkert, P., Mourkioti, F., Dentzer, L., He, Y., Deak, P., Benos, P.V., Gatt, M.K., Murphy, L., Harris, D., Barrell, B., Ferraz, C., Vidal, S., Brun, C., Demaille, J., Cadieu, E., Dreano, S., Gloux, S., Lelaure, V., Mottier, S., Galibert, F., Borkova, D., Minana, B., Kafatos, F.C., Bolshakov, S., Siden-Kiamos, I., Papagiannakis, G., Spanos, L., **Louis, C.**, Madueno, E., de Pablos, B., Modolell, J., Bucheton, A., Callister, D., Campbell, L., Henderson, N.S., McMillan, P.J., Salles, C., Tait E., Valenti, P., Saunders, R.D., Billaud, A., Pachter, L., Klapper, R., Janning, W., Glover, D.M., Ashburner, M., Bellen, H.J., Jackle, H., and Schafer, U. (2002) Identification and mapping of vital gene functions of the *Drosophila* X-chromosome. *EMBO Rep.* **3**, 34-38. (PMID: 11751581)
61. Holt, R.A., Subramanian, G.M., Halpern, A., Sutton, G.G., Charlab, R., Ribeiro, D.M.C., Wides, R., Salzberg, S.L., Loftus, B., Yandell, M., Majoros, W.H., D.B., Rusch, Lai, Z., Kraft, C.L., Abril, J.F., Anthouard, V., Arensburger, P., Atkinson, P.W., Baden, H., de Berardinis, V., Baldwin, D., Benes, V., Biedler, J., Blass, C., Bolanos, R., Boscus, D., Barnstead, M., Cai, S., Center, A., Chatuverdi, K., Christophides, G.K., Chrystal, M.A., Clamp, M., Cravchik, A., Curwen, V., Dana, A., Delcher, A., Dew, I., Evans, C.A., Flanigan, M., Grundschober-Freimoser, A., Friedli, L., Gu, Z., Guan, P., Guigo, R., Hillenmeyer, M.E., Hladun, S.L., Hogan, J.R., Hong, Y.S., Hoover, J., Jaillon, O., Ke, Z.,1, Kodira, C., Kokoza, E., Koutsos, A., Letunic, I., Levitsky, A., LiangY., Lin, J.J., Lobo, N.F., Lopez, J.R., MalekJ.A., McIntosh, T.C., Meister, S., Miller, J., Mobarry, C., Mongin, E., Murphy, S.D., O'Brochta, D.A., Pfannkoch, C., Qi, R., Regier, M.A., Remington, K., Shao, H., Sharakhova, M., Sitter, C.D., Shetty, J., Smith, T.J., Strong, R., Sun, J., Thomasova, D., Ton, L.Q., Topalis, P., Tu, Z., Unger, M.F., Walenz, B., Wang, A., Wang,J., Wang,M., Wang, X., Woodford, K.J., Wortman,J.R., Wu, M., Yao, A., Zdobnov, E.M., Zhang, H., Zhao, Q., Zhao, S., Zhu, S.C., Zhimulev, I., Coluzzi,M., della Torre,A., Roth, C.W., **Louis, C.**, Kalush, F., Mural, R.J., Myers, E.W., Adams, M.D., Smith, H.O., Broder, S., Gardner, M.J., Fraser, C.M., Birney, E., Bork, P., BreyP.T., Venter, J.C., Weissenbach, J., Kafatos,F.C., Collins, F.H., Stephen L. Hoffman, S.L. (2002) The Genome Sequence of the Malaria Mosquito *Anopheles gambiae*; *Science* **298**, 129-149. (PMID: 12364791)
62. Zdobnov, E.M., v. Mering, C., Letunic, I., Torrents, D., Suyama, M., Copley, R.R., Christofides, G.K., Thomasova, D., Holt, R.A., Subramanian, G.M., Mueller, H.M., Dimopoulos, G., Law, J.H., Wells, M.A., Birney, E., Charlab, R., Halpern, A.L., kokoza, E., Kraft, C.L., Zhogwu, L., Lewis, S., **Louis, C.**, Barillas-Mury, C., Nusskern, D., Rubin, G.M., Salzberg, S.L., Sutton, G.G., Topalis, P., Wides, R., Wincker, P., Yandell, M., Collins, F.H., Ribeiro, J., Gelbart, W.M., Kafatos, F.C. and Bork, P. (2002) Comparative genome and proteome analysis of *Anopheles gambiae* and *Drosophila melanogaster*. *Science*, **298**, 149-159. (PMID: 12364792)

63. Parmakelis, A., Spanos, L., Papagiannakis, G., **Louis, C.** and Mylonas, M. (2003) Mitochondrial DNA phylogeny and morphological diversity in the genus *Mastus* (Beck, 1837). A study in a recent (Holocene) island group (Koufonissi, SE Crete). *Biol. J. Linnean Soc.*, **78**, 383-399.
64. **Louis, C.** (2003) Genomics and Medical Entomology: a Sweet and Fruitful Marriage Blessed with Many Children. *Rev. Clin. Pharmacol. Pharmacokin.* **18**, 234-238.
65. Dessens, T.J., Sidén-Kiamos, I., Mendoza, J., Macheraki, V., Khater, E., Vlachou, D., Xu, X.J., Kafatos, F.C., **Louis, C.**, Dimopoulos, G. and Sinden, R.E. (2003). SOAP, a novel malaria ookinete protein involved in mosquito midgut invasion and oocyst development. *Mol. Microbiol.*, **449**, 319-329. (PMID: 12828632)
66. **Louis, C.** (2003). Medical entomology and genomics [in Greek]. *BIO*, **7**, 34-38.
67. Mongin, M., Louis, C., Holt, R. A., Birney, E. and Collins, F. H. (2004). The *Anopheles gambiae* genome: an update on sequence, data, annotation and access. *Trends Parasitol.*, **20**, 49-52. (PMID: 14747013)
68. Siden-Kiamos, I. and Louis, C. (2004). Interactions between malaria parasites and their mosquito hosts in the midgut *Insect Biochem. Molec. Biol.*, **34**, 679-685. (PMID: 15242709).
69. Vontas, J., McCarroll, L., Karunaratne, S.H.P.P., **Louis, C.**, Hurd, H. and Hemingway, J. (2004) Does environmental stress affect insect-vector parasite transmission? *Physiol. Entomol.* **29**, 210-213. (PMID: 19330047).
70. Ribeiro, J.M.C., Topalis, P. and **Louis, C.** (2004) Anoxcel: A database of *Anopheles gambiae* proteins oriented to the bench scientist. *Insect Mol. Biol.* **13**, 449-457 (PMID: 15373803).
71. Vontas, J., Sidén-Kiamos, I., Papagiannakis, G., Karras, M., Waters, A.P. and **Louis, C.** (2005) Gene expression in *Plasmodium berghei* during invasion in an *Aedes*- parasite co-culture *in vitro*. *Molec. Biochem. Parasit.* **139**, 1-13 (PMID: 15610814).
72. Mahairaki, V., Voyatzi, T., Siden-Kiamos, I. and **Louis, C.** (2005). The *Anopheles gambiae* gamma1 laminin directly binds the *Plasmodium berghei* circumsporozoite- and TRAP-related protein (CTRP). *Molec. Biochem. Parasit.* **140**, 119-121. (PMID: 15694493).
73. David, J.P., Strode, C., Vontas, J., Nikou, D., Vaughan, A., Pignatelli, P.M., **Louis, C.**, Hemingway, J. and Ranson, H. (2005) The *Anopheles gambiae* Detoxification Chip: a new highly specific microarray to study metabolic based insecticide resistance in malaria vectors. *Proc. Natl. Acad. Sci. USA* **102**, 4080-4084. (PMID: 15753317)
74. Lombardo, F., Nolan, T., Lycett, G., Lanfrancotti, A., Stich, N., Catteruccia, F., **Louis, C.**, Coluzzi, M. and Arca, B. (2005) An *Anopheles gambiae* salivary gland promoter analysis in *Drosophila melanogaster* and *Anopheles stephensi*. *Insect Mol. Biol.* **14**, 207-216. (PMID: 15796754).
75. Kotsyfakis, M., Ehret-Sabatier, L., Siden-Kiamos, I., Mendoza, J., Sinden, R.E. and **Louis, C.** (2005) *Plasmodium berghei* ookinetes bind to *Anopheles gambiae* and *Drosophila melanogaster* annexins. *Molec. Microbiol.*; **57**, 171-179. (PMID: 15948958).
76. Parmakelis, A., Pfenninger, M., Spanos, L., Papagiannakis, G., **Louis, C.**, and Mylonas, M. (2005) Inference of a radiation in *Mastus* (Gastropoda, Pulmonata, Enidae) on the island of Crete. *Evolution* **59**, 991-1005. (PMID: 16136799).
77. Arrighi, R.B.G., Lycett, G., Mahairaki, V., Sidén-Kiamos, I. and **Louis, C.** (2005) Laminin and the malaria parasite's journey through the mosquito midgut. *J. Exp. Biol.*, **208**, 2497-2502. (PMID: 15961736).
78. Mahairaki, V., Lycett, G., Sidén-Kiamos, I., Sinden, R.E. and **Louis, C.** (2005). Close association of invading *Plasmodium berghei* and beta integrin in the *Anopheles gambiae* midgut. *Arch. Insect Biochem. Physiol.* **20**, 13-19. (PMID: 16116619)
79. Vontas, J., Blass, C., Koutsos, A.C., David, J.P., Kafatos, F.C., **Louis, C.**, Hemingway, J., Christophides, G.K., Ranson, H. (2005) Gene expression in insecticide resistant and susceptible *Anopheles gambiae* strains constitutively or after insecticide exposure. *Insect Mol. Biol.* **14**, 509-521. (PMID: 16164607)
80. Kotsyfakis, M., Vontas, J., Siden-Kiamos and **Louis, C.** (2005) The annexin gene family in the malaria mosquito *Anopheles gambiae*. *Insect Mol. Biol.* **14**, 555-562. (PMID: 16164611)
81. Topalis, P., Koutsos, A.C., Dialynas, M., Kiamos, C., Hemingway, J. and **Louis, C.** (2005)

- AnoBase: A genetic and biological database of *anophelines* *Insect Mol. Biol.* **14**, 591-597. (PMID: 16313559)
82. Parmakelis, A., Stathi, I., Spanos, L., **Louis, C.**, Mylonas, M. (2006). Phylogeography of *Iurus dufourei* (Brullé, 1832) (Scorpions, Iuridae) in the Aegean Archipelago. *J. Biogeogr.* **33**, 251-260.
 83. Moita, L.F., Vriend, G., Mahairaki, V., **Louis, C.** and Kafatos F.C. (2006) Integrins of *Anopheles gambiae* and a putative role of a new beta integrin, BINT2, in phagocytosis of *E. coli*. *Insect Biochem. Mol. Biol.* **36**, 282-290. (PMID: 16551542)
 84. Siden-Kiamos, I., Ecker, A., Nybäck, S., **Louis, C.**, Sinden, R.E. and Billker, O. (2006) *Plasmodium berghei* Calcium Dependent Protein Kinase 3 is required for ookinete gliding motility and mosquito midgut invasion. *Mol. Microbiol.*, **60**, 1355-1363 (PMID: 16796674)
 85. Parmakelis, A., Stathi, I., Chatzaki, M., Simaiakis, S., Spanos, L., **Louis, C.** and Mylonas, M. (2006). Evolution of *Mesobuthus gibbosus* (Brulle, 1832) (Scorpiones : Buthidae) in the northeastern Mediterranean region. *Molec. Ecol.*, **15**, 2883-2894 (PMID: 16911208)
 86. Siden-Kiamos, I., Pinder, J.C. and **Louis, C.** (2006). Involvement of actin and myosins in *Plasmodium berghei* ookinete motility. *Molec. Biochem. Parasit.*, **150**, 308-317. (PMID: 17028009)
 87. Lawson, D., Arensburger, P., Atkinson, P., Besansky, N.J., Bruggner, R.V., Butler, R., Campbell, K.S., Christophides, G.K., Christley, S., Dialynas, E., Emmert, D., Hammond, M., Hill, C.A., Kennedy, R.C., Lobo, N.F., Maccallum, M.R., Madey, G., Megy, K., Redmond, S., Russo, S., W. Severson, D., Stinson, E.O., Topalis, P., Zdobnov, E.M., Birney, E., Gelbart, W.M., Kafatos, F.C., **Louis, C.** and Collins, F.H. (2007) VectorBase: A home for invertebrate vectors of human pathogens. *Nucl. Acids Res.*, **35** (Database issue) D503-505. (PMID: 17145709)
 88. Vontas, J., David, J.P., Nikou, D., Hemingway, J., Christophides, J.K., **Louis, C.** and Ranson, H. (2007) Transcriptional analysis of insecticide resistance in *Anopheles stephensi*, using cross-species microarray hybridization. *Insect Mol. Biol.*, **16**, 315-324. (PMID: 17433071)
 89. Topalis, P., Tzavlaki, C., Vestaki, K., Dialynas, E., Sonenshine, D.E., Butler, R., Bruggner, R.V., Stinson, E.O., Collins, F.H. and **Louis, C.** (2008) Anatomical ontologies of mosquitoes and ticks, and their web browsers in VectorBase. *Insect Mol. Biol.*, **17**, 87-89. (PMID: 18237287)
 90. Topalis, P., Lawson, D., Collins, F.H. and **Louis, C.** (2008) How can ontologies help vector biology? *Trends Parasitol.*, **24**, 249-252. (PMID: 18440275)
 91. Siden-Kiamos and Louis, C. (2008) Intracellular calcium levels in the *Plasmodium berghei* ookinete; *Parasitology*, **8**, 1-8 (PMID: 18775093).
 92. Lawson, D., Arensburger, P., Atkinson, P., Besansky, N.J., Bruggner, R.V., Butler, R., Campbell, K.S., Christophides, G.K., Dialynas, E., Hammond, M., Hill, C.A., Konopinski, N., Lobo, N.F., MacCallum, R.M., Madey, G., Megy, K., Meyer, J., Redmond, S., Severson, D.W., Stinson, E.O., Topalis, P., Birney, E., Gelbart, W.M., Kafatos, F.C., Louis, C. and Collins, F.H. (2009) VectorBase: a data resource for invertebrate vector genomics. (2009) VectorBase: A home for invertebrate vectors of human pathogens. *Nucl. Acids Res.*, **37**, D583-7. (PMID:19028744)
 93. Ponzi, M., Siden-Kiamos, I., Bertuccina, L., Curra, C., Kroeze, H., Camarda, G., Pace, T., Franke-Fayard, B., Laurentino, E.C., **Louis, C.**, Waters, A.P., Janse, C.J. and Alano, P. (2009) Egress of *Plasmodium berghei* gametes from their host erythrocyte is mediated by the MDV-1/PEG3 protein. *Cell. Microbiol.* (2009) **11**, 1272-1288. (PMID: 19438517)
 94. Dialynas, E., Topalis, P., Vontas, J. and **Louis, C.** (2009) MIRO and IRbase: IT tools for the epidemiological monitoring of insecticide resistance in mosquito disease vectors. *PLoS Negl. Trop. Dis.* **3**(6): e465. doi:10.1371/journal.pntd.0000465 (PMID: 19547750)
 95. Parmakelis, A., Moustaka, M., Poulakakis, N., Louis, C., Slotman, M. A., Marshall, J. C., Awono-Ambene, P. H., Antonio-Nkondjio, C., Simard, F., Caccone, A., Powell, J. R. (2010) *Anopheles* immune genes and amino acid sites evolving under the effect of positive selection, *PLOS One*, doi:10.1371/journal.pone.0008885. (PMID: 20126662)
 96. Siden-Kiamos, I., Schueller, H., Liakopoulos, D. and **Louis, C.** (2010) Arp1, an actin-related protein, in *Plasmodium berghei*. *Mol. Biochem. Parasitol* **173**, 88-96. (PMID: 20580650)
 97. Topalis, P., E., Mitraka, E., Bujila, I., Deliyanni, Dialynas, E., Siden-Kiamos, I., Troye-Blomberg, M. and **Louis C.** (2010) IDOMAL: An ontology for malaria. *Malaria J.*, **10**;9(1):230. (PMID: 20698959)

98. Topalis, P., Dialynas, E., Mitraka, E., Deliyanni, E., Siden-Kiamos, I. and **Louis C.** (2011) A set of ontologies to drive tools for the control of vector-borne diseases. *J Biomed. Inform.* **44**, 42-47. (PMID: 20363364)
99. Deligianni, E., Morgan, R.N., Bertuccini, L., Kooij, T.W.A., Laforge, A., Poulakakis, N., Schüler, H., **Louis, C.**, Matuschewski, K. and Siden-Kiamos, I. (2011) Critical role for a stage-specific actin in male exflagellation of the malaria parasite, *Cell. Microbiol.*, doi: 10.1111/j.1462-5822.2011.01652.x. (PMID: 21790945)
100. **Louis, C.** (2011) The dengue fever epidemic in Athens viewed through a daily newspaper in 1927-1931. *Emerg. Inf. Dis.*, in press.
101. Siden-Kiamos, I., Ganter, M., Kunze, A., Hliscs, M., Steinbüchel, M., Mendoza, J., Sinden, R.E., **Louis, C.** and Matuschewski, K. (2011) Genetic Strategy for Stage-specific Depletion of *Plasmodium* Transcripts Supports an Essential Role of Myosin A in Gliding Motility of Malarial Ookinetes. *Cell. Microbiol.*, in press.

In preparation/submitted:

102. Spanos, L., Siden-Kiamos, I., Topalis, P., Nikiforaki, D. and **Louis, C.** (2011) Expression of the epithelial cadherin gene in the African malaria mosquito, *Anopheles gambiae*; in preparation for *Arch. Insect Biochem. Physiol.*
103. Deligianni, E., Morgan, Spanos, L., R.N., Bertuccini, L., **Louis, C.** and Siden-Kiamos, I. (2011) Disruption of the erythrocyte membrane is dependent on a perforin-like protein during egress of *Plasmodium berghei* male gametocytes; in preparation for *Cell. Microbiol.*
104. Parikh, **P.P.**, Zheng, Z., Logan-Klumper, F., **Louis, C.**, **Topalis, P.**, Stoeckert **Jr.**, C.J., Shett, A.P., Carrington, M., Berriman, M, and Sahoo, S.S. (2011) The Ontology for Parasite Lifecycle (OPL): Towards a Consistent Vocabulary of Lifecycle Stages in Parasitic Organisms; in preparation.

"In press" for ever:

999. Saccone, G., Peluso, I., di Paola, F., **Louis, C.** and L. C. Polito (1997). *Drosophila Sex-lethal* and *double-sex* homologous genes in *Ceratitis capitata*: searching for sex-specific genes to develop a medfly transgenic sexing strain. *IAEA Symp. Genetics and Biotechnology in Insect Control*. "In press".

Paper from laboratory project (laboratory members in bold & italics), CL as well as all PIs from EDGP excluded from authorship by agreement:

000. Adams MD, Celniker SE, Holt RA, Evans CA, Gocayne JD, Amanatides PG, Scherer SE, Li PW, Hoskins RA, Galle RF, George RA, Lewis SE, Richards S, Ashburner M, Henderson SN, Sutton GG, Wortman JR, Yandell MD, Zhang Q, Chen LX, Brandon RC, Rogers YH, Blazej RG, Champe M, Pfeiffer BD, Wan KH, Doyle C, Baxter EG, Helt G, Nelson CR, Gabor GL, Abril JF, Agbayani A, An HJ, Andrews-Pfannkoch C, Baldwin D, Ballew RM, Basu A, Baxendale J, Bayraktaroglu L, Beasley EM, Beeson KY, Benos PV, Berman BP, Bhandari D, **Bolshakov S**, Borkova D, Botchan MR, Bouck J, Brokstein P, Brottier P, Burtis KC, Busam DA, Butler H, Cadieu E, Center A, Chandra I, Cherry JM, Cawley S, Dahlke C, Davenport LB, Davies P, de Pablos B, Delcher A, Deng Z, Mays AD, Dew I, Dietz SM, Dodson K, Doup LE, Downes M, Dugan-Rocha S, Dunkov BC, Dunn P, Durbin KJ, Evangelista CC, Ferraz C, Ferriera S, Fleischmann W, Fosler C, Gabrielian AE, Garg NS, Gelbart WM, Glasser K, Glodek A, Gong F, Gorrell JH, Gu Z, Guan P, Harris M, Harris NL, Harvey D, Heiman TJ, Hernandez JR, Houck J, Hostin D, Houston KA, Howland TJ, Wei MH, Ibegwam C, Jalali M, Kalush F, Karpen GH, Ke Z, Kennison JA, Ketchum KA, Kimmel BE, Kodira CD, Kraft C, Kravitz S, Kulp D, Lai Z, Lasko P, Lei Y, Levitsky AA, Li J, Li Z, Liang Y, Lin X, Liu X, Mattei B, McIntosh TC, McLeod MP, McPherson D, Merkulov G, Milshina NV, Mobarry C, Morris J, Moshrefi A, Mount SM, Moy M, Murphy B, Murphy L, Muzny DM, Nelson DL, Nelson DR, Nelson KA, Nixon K, Nusskern DR, Pacleb JM, Palazzolo M, Pittman GS, Pan S, Pollard J, Puri V, Reese MG, Reinert K, Remington K, Saunders RD, Scheeler F, Shen H, Shue BC, **Siden-Kiamos I**, Simpson M, Skupski MP, Smith T, Spier E, Spradling AC, Stapleton M, Strong R, Sun E, Svirkas R, Tector C, Turner R, Venter E, Wang AH, Wang X, Wang ZY, Wassarman DA, Weinstock GM, Weissenbach J, Williams SM, Woodage T, Worley KC, Wu D, Yang S, Yao QA, Ye J, Yeh RF,

Zaveri JS, Zhan M, Zhang G, Zhao Q, Zheng L, Zheng XH, Zhong FN, Zhong W, Zhou X, Zhu S, Zhu X, Smith HO, Gibbs RA, Myers EW, Rubin GM, Venter JC. The genome sequence of *Drosophila melanogaster*. (2000) *Science*. 287, 2185-95. (PMID: 10731132)

B. DATABASES & ONTOLOGIES

1. Topalis, P. and **Louis, C.** (1996). AnoDB: an *Anopheles* Database. Accessible (from 1995 till September 2002) through WWW at the URL: <http://konops.imbb.forth.gr/AnoDB>.
2. Topalis, P., Koutsos, A. and **Louis, C.** (2002). AnoBase: an *Anopheles* Database. Accessible (from October 2002) through WWW at the URL: <http://www.anobase.org>.
3. Birney, E., Collins, F.H., Gelbart, W., Kafatos, F.C., **Louis, C. et al.** (2005) VectorBase, a database for disease vectors. Accessible (from October 2005) through WWW at the URL: <http://www.vectorbase.org>.
4. Topalis, P., Tzavlaki, C., Vestaki, K., Dialynas, E., and **Louis, C.** (2007) TGMA, the mosquito anatomy ontology. Accessible through the obofoundry; http://www.obofoundry.org/cgi-bin/detail.cgi?id=mosquito_anatomy
5. Sonenshine, D.E., Topalis, P., Dialynas, E. and **Louis, C.** (2007) TADS, the tick anatomy ontology. Accessible through the obofoundry; http://www.obofoundry.org/cgi-bin/detail.cgi?id=tick_anatomy
6. Dialynas, E., Topalis, P., Vontas, J. and **Louis, C.** (2008) MIRO, the mosquito insecticide resistance ontology. Accessible through the obofoundry; http://www.obofoundry.org/cgi-bin/detail.cgi?id=mosquito_insecticide_resistance
7. Topalis, P., E., Mitra, E., Bujila, I., Deliyanni, Dialynas, E., Siden-Kiamos, I., Troye-Blomberg, M. and **Louis C.** (2010) IDOMAL: An ontology for malaria. Accessible through the obofoundry; http://www.obofoundry.org/cgi-bin/detail.cgi?id=malaria_ontology

C. BOOKS AND BOOK CHAPTERS

1. **Louis, C.**, Savakis, C. and Kafatos, F.C. (1987). Possibilities for genetic engineering in the eradication of harmful insects. In: *Medflies, Second Intern. Symposium Proceedings* (A. Economopoulos ed.), Elsevier, Amsterdam and New York, pp. 47-57. (ISBN: 0-444-98946-3)
2. Robinson, A.S., Savakis, C. and **Louis, C.** (1988). The status of molecular genetic studies in the Medfly *Ceratitis capitata* in relation to genetic sexing. In: *IAEA Symp. Genetics and Biotechnology in insect control*. pp. 241-250.
3. Crampton, J., Beard, C.B. and **Louis, C.**, eds. (1997). The molecular biology of insect disease vectors: a methods manual (p i-xxvi and 1-578). Chapman & Hall, London. (ISBN 0 412 73660 8)
4. **Louis, C.** (1997). Isolation of insect DNA. In: *The molecular biology of insect disease vectors: a methods manual* (Crampton, J., Beard, C.B. and **Louis, C.**, eds.) Chapman & Hall, London, pp. 159-163. (ISBN 0 412 73660 8)
5. Dimopoulos, G. and Louis, C. (1997). Differential display. In: *The molecular biology of insect disease vectors: a methods manual* (Crampton, J., Beard, C.B. and **Louis, C.**, eds.) Chapman & Hall, London, pp. 261-267. (ISBN 0 412 73660 8)
6. **Louis, C.** (1998). The molecular approach in malaria entomology. In: *ICOPA IX, 9th International Congress of Parasitology* (I. Tada, S. Kojima, M. Tsuji, eds.) Monduzzi Editore, Bologna. p. 77-81. (ISBN: 88-323-0824-X)
7. Saccone, G., Pane, A., Testa, G., Santoro, M., De Martino, G., Di Paola, F., **Louis, C.** and Polito, L.C. (2000). Sex determination in Medfly: A molecular approach. In: *Area-Wide Control of Fruit Flies and Other Insect Pests*, (K.H. Tan, ed.) Penerbit Universiti Sains Malaysia, Pulau Pinang. p. 491-496. (ISBN: 983-861-195-6)
8. Bolshakov, V. N. and **Louis, C.** (2002). Sequencing of complex eukaryotic genomes: man, worm and fruitfly. In: *Genome sequencing and comparative analysis* (Tsiftaris, A.S., and Polidoros, A.N., eds.) University Studio Press, Thessaloniki. p. 119-131.

9. **Louis, C.** (2003). Gene Bank Data for Hematophagous Arthropods. In: *The Biology of Disease Vectors*, Second Edition (Marquardt, W.C., Black, W.C., Freier, J., Hagedorn, H., Hemingway, J., Higgs, S., James, A.A. and Kondratieff, B., eds.) Academic Press.,pp.693-697 (ISBN: 0-12-473276-3.)
10. Knols, B.G.J. and **Louis, C.**, eds. (2005) *Bridging laboratory and field research for genetic control of disease vectors*. (pp. i-x and 1-225). Wageningen UR Frontis Series, Vol. 11, Springer, Heidelberg, Germany. Preface pp. ix-x. (ISBN: 1-4020-3799-6).
11. **Louis, C.** and Knols, B.G.J. (2005) Executive summary. In: *Bridging laboratory and field research for genetic control of disease vectors*.. (Knols, B. and Louis, C., eds.) Wageningen UR Frontis Series, Vol. 11, Springer, Heidelberg, Germany, pp. 1-4. (ISBN: 1-4020-3799-6)
12. **Louis, C.** and Knols, B.G.J. (2005) Report of the Working group meeting. In *Bridging laboratory and field research for genetic control of disease vectors*. (Knols, B. and Louis, C., eds.) Wageningen UR Frontis Series, Vol. 11, Springer, Heidelberg, Germany, pp. 5-29. (ISBN: 1-4020-3799-6)
13. **Louis, C.** (2005) Genomics and expected benefits for vector entomology. In *Bridging laboratory and field research for genetic control of disease vectors*. (Knols, B. and Louis, C., eds.) Wageningen UR Frontis Series, Vol. 11, Springer, Heidelberg, Germany, pp. 45-50. (ISBN: 1-4020-3799-6)
14. **Louis, C.** (2005) Transition from the laboratory to field and effective interplay. In *Bridging laboratory and field research for genetic control of disease vectors*. (Knols, B. and Louis, C., eds.) Wageningen UR Frontis Series, Vol. 11, Springer, Heidelberg, Germany, pp. 145-148. (ISBN: 1-4020-3799-6)
15. Siden-Kiamos, I. and **Louis, C.** (2008) Cultivation of *Plasmodium berghei* ookinetes with insect cells for production of young oocysts. In *Methods in Malaria Research* (Moll, K., Ljungström, I., Perlmann, H., Scherf, A. and Wahlgren, M., eds.) MR4, Manassas and BioMalPar, Paris pp.125-127.
16. Siden-Kiamos, I. and **Louis, C.** (2008) Enrichment of *Plasmodium berghei* ookinetes from *in vitro* cultures using Dynabeads. In *Methods in Malaria Research* (Moll, K., Ljungström, I., Perlmann, H., Scherf, A. and Wahlgren, M., eds.) MR4, Manassas and BioMalPar, Paris pp.128-130
17. Siden-Kiamos, I. and **Louis, C.** (2008) Motility assays of *Plasmodium berghei* ookinetes. In *Methods in Malaria Research* (Moll, K., Ljungström, I., Perlmann, H., Scherf, A. and Wahlgren, M., eds.) MR4, Manassas and BioMalPar, Paris pp.131-133
18. Tsinorema, S and **Louis, C.**, eds. (2009). *Topics in Bioethics* (in preparation). Crete University Press.
19. **Louis, C.** (2009) Premature death in the Third World: some thoughts from the North (in Greek). In *Topics in Bioethics* (in press). Crete University Press.

D. OTHER SCIENTIFIC PUBLICATIONS

1. **Louis, C.** (1985). L'impact des Biotechnologies dans le domaine de la Santé [in French]. In: *Conférence sur les Bioindustries et le Développement, proceedings*, Centre de Transfer pour Développement des Bioindustries, Marseille, pp.22-25.
2. Chipperfield, M., Maidek, M., Pearson, P., Ashburner, M., Glover, D.M., Saunders, R.D., Duncan, I., Hartl, D., Merriam J., Lee, G., Johnsen, J., Kafatos, F.C., Siden-Kigmos, I., **Louis, C.**, Savakis, C. (1991). Genome maps 1991 (wall chart) *Science* 254: 247-262 . (PMID: 1925580)
3. **Louis, C.** (1999). Zorba the Greek Scientist. *Curr. Biol.* **9**, R79. (PMID: 10021396)
4. **Louis, C.** (2001) Review: a comprehensive set of sequence analysis programs for the VAX. *The Biochemist*, **23**, 64
5. **Louis, C.** (2003). Biology and the Orthodox Academy of Crete. [in Greek] *Dialogoi Katallagis*, **71**, 714-716.
6. Milgram, A. J., Topalis, P., Birney, E., Jasny, B. R., Collins, F., **Louis, C.**, and Roos, D. R. (2003).

The Mosquito Genome. CD published by the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR) and the American Association for the Advancement of Science (*Science*).

7. James, A.A. and Louis, C. (2003). *Rapporteurs: Insect Vectors and Human Health*. Report of the Scientific Working Group meeting, 12-16 August 2002, Geneva, Switzerland. WHO/TDR Publications, pp.1-73. (TDR/SWG/VEC/03.1)
8. **Louis, C.** (2004). Preface. *Insect Biochem. Molec. Biol.*, **34**, 597. (PMID: 15242699)
9. **Louis, C.** (2005) O Mosquito transgenico [in Portuguese]. *Ciencia Hoje* **36**, 6-8.
10. Topalis, P., Dialynas, E., Mitraka, E., Deliyanni, E., Siden-Kiamos, I. and **Louis C.** (2009) A set of ontologies to drive tools for the control of vector-borne diseases. *Nature Precedings* doi:10.1038/npre.2009.3464.1 [early version of publication A101].
11. Topalis, P., Dialynas, E. and **Louis, C.** (2010) Ontologies and Vector-Borne Diseases: New Tools for Old Illnesses. *ERCIM News* **82**, 47-48.
12. **Louis, C.** (2011) On Men and Mosquitoe [in Greek]. I Kathimerini (Η Καθημερινή) 2 September 2011.

